



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 5326
09/835,316	04/17/2001	Seiji Umemoto	Q64129	
7	590 11/19/2003	EXAMINER		
	MION ZINN, MACPI	ERDEM, FAZLI		
2100 Pennsyva Washington, E	nia Avenue, N.W.	ART UNIT	PAPER NUMBER	
washington, L	C 20037		2826	

DATE MAILED: 11/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)			
Office Action Summary			09/835,316	UMEMOTO ET AL.			
			Examiner	Art Unit			
		Fazli Erdem	2826				
Th MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
_	Status 1)⊠ Responsive to communication(s) filed on <u>30 October 2003</u> .						
	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
	4) Claim(s) <u>1-15</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1-15</u> is/are rejected.							
	7) Claim(s) is/are objected to.						
	Claim(s) are subject to restrict	ion and/or	election requirement.				
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
a) \square The translation of the foreign language provisional application has been received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
Attachment	t(s)						
1) Notice	e of References Cited (PTO-892)		4) 🔲 Interview Summa	ry (PTO-413) Paper No(s)			
	e of Draftsperson's Patent Drawing Review (PT		5) 🔲 Notice of Informa	Patent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6) Other:							

Art Unit: 2826

DETAILED ACTION

1. Applicant's communication filed on 10/30/2003 has been carefully considered by the examiner. The arguments advanced therein are persuasive with respect to the rejections of record and those rejections are accordingly withdrawn. In view of a further search, however, a new rejection is set forth further below. This action is not made final.

Allowable Subject Matter

2. Claim 3 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 4-10, and 14 rejected under 35 U.S.C. 103(a) as being unpatentable over Colgan et al. (6,483,498) in view of Hamada (6,501,528) further in view of Meadows (4,916,308) further in view of Inou (5,774,107).

Regarding Claims 1, 2, 4-8, 10 and 14, Colgan et al. disclose a liquid crystal display with integrated resistive touch sensor. Liquid crystal display includes a first substrate having a first

conductive layer formed on it. A linearization pattern is formed on the first conductive layer for applying voltage gradients across the first conductive layer. A flexible polarizer is included having a second conductive layer formed on it facing the first conductive layer across a gap formed between, the polarizer providing a contact surface such that a touched position on the polarizer causes contact between the first conductive layer and the second conductive layer and identifying a location of the touched position. Colgan et al. fail to disclose the electrode for the touch panel structure, required electrode location for the touch panel structure and the gap structure in the touch panel. However, Hamada discloses a stacked display device with folded substrate where the required electrode structure for the touch panel is disclosed. Furthermore, Meadows discloses an integrated liquid crystal display and optical touch panel where the required electrode location for the touch panel structure is disclosed. Finally, Inou et al. disclose a display apparatus with input functions where required gap structure is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required electrode, electrode location, and gap structures in Colgan et al. as taught by Hamada, Meadows, and Inou respectively in order to have an LCD device with more better performing touch structure.

3. Claim 11 rejected under 35 U.S.C. 103(a) as being unpatentable over Colgan et al. (6,483,498) in view Hamada (6,501,528) further in view of Meadows (4,916,308) further in view of Inou (5,774,107) further in view of Okuda et al. (5,963,280).

Application/Control Number: 09/835,316

Art Unit: 2826

Regarding Claim 11, Colgan et al., Hamada, Meadows and Inou combination fail to show a macromolecular dispersion structure. However, Okuda et al. disclose a liquid crystal display device with a touch panel where the macromolecular dispersion structure is shown.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the macromolecular structure in Colgan, Hamada, Meadows and Inou combination as taught by Okuda et al. in order to have an LCD structure with better functionality.

4. Claims 12 and 13 rejected under 35 U.S.C. 103(a) as being unpatentable over Colgan et al. (6,483,498) in view of Hamada (6,501,528) further in view of Meadows (4,916,308) further in view of Inou (5,774,107) further in view of Takatori et al. (6,504,592)

Regarding Claims 12 and 13, Colgan et al. as taught by Hamada, Madows and Inou fail to show a cholesteric LCD structure and protrusion structure. However, Takatori et al. disclose a liquid crystal display device with a touch panel where the cholesteric LCD structure and the protrusion structure are shown.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the cholesteric LCD structure and protrusion structure in Colgan et al. as taught by Hamada, Meadows and Inou combination as taught by Takatori et al. in order to have an LCD structure with better functionality.

Page 5

Art Unit: 2826

5. Claims 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Colgan et al. (6,483,498) in view of Hamada (6,501,528) further in view of Meadows (4,916,308) further in view of Inou (5,774,107) further in view of Yamagata (6,088,024).

Regarding Claim 15, Colgan et al. as taught by Hamada, Meadows, and Inou fail to show the method of input detection method. However, Yamagata et al. disclose a liquid crystal display device with a touch panel where the input detection method is shown.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the input detection method Colgan et al. as taught by Hamada, Meadows and Inou combination as taught by Yamagata et al., in order to make an LCD structure with better functionality.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (703) 305-3868. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (703) 308-6601. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

FE November 13, 2003